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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/586,518 06/02/2000		Michael R. Bruce	AMDA.455PA 5747		
75	90 10/15/2003		EXAMINER		
Crawford PLLC 1270 Northland Drive		CHARIOUI, MOHAMED			
Suite 390			PAPER NUMBER		
ST. Paul. MN 55120			2857		

DATE MAILED: 10/15/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

				20				
	Applicatio	n No.	Applicant(s)	<del></del>				
Office Action Summary	09/586,518	3	BRUCE ET AL.					
Office Action Summary	Examiner		Art Unit					
The MAILING DATE of this communication can	Mohamed		2857	Idean				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status								
1) Responsive to communication(s) filed on 21 July 2003.								
2a) This action is <b>FINAL</b> . 2b) ⊠ Thi	s action is i	non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. <b>Disposition of Claims</b>								
4)⊠ Claim(s) <u>1-23</u> is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5)⊠ Claim(s) <u>2-23</u> is/are allowed.								
6)⊠ Claim(s) <u>1</u> is/are rejected.								
7) Claim(s) is/are objected to.								
8) Claim(s) are subject to restriction and/or Application Papers	election re	quirement.						
··· _	-							
9) The specification is objected to by the Examiner.  10) The drawing(s) filed onis/are; a) Coccepted or b) the Examiner.								
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) ☐ All b) ☐ Some * c) ☐ None of:								
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment(s)								
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	·		/ (PTO-413) Paper No Patent Application (P⊺					

U.S. Patent and Trademark Office PTOL-326 (Rev. 04-01) Application/Control Number: 09/586,518

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In view of the Appeal brief filed on 7/21/03, PROSECUTION IS HEREBY
 REOPENED. New ground of rejection are set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
  - (2) request reinstatement of the appeal.

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application

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being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by Nikawa.

Nikawa teaches a method for analyzing a semiconductor die having suspect circuitry that includes a multitude of circuit paths (see col. 4, lines 13-20 and col. 4, lines 26-38), using a state-changing operation of the suspect circuitry to cause a failure due to the suspect circuitry (see col. 4, lines 20-30), identifying one of the circuit paths that electrically changes in response to heat and detecting that a particular circuit portion therein is resistive (see col. 4, lines 57-67; col. 5, lines 30-46; and col. 8, line 56 to col. 9, line 2).

## Allowable Subject Matter

### 3. Claims 2-23 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

As per claims 2, 3, 6-16 and 18, none of the prior art of record teaches or suggests detecting, in response to the selected portion being heated, a state-changing transition between a failed mode and a recovered mode in the suspect signal path site; and using the detected state-changing transition, determining that the signal path site has a resistivity that changes between the failed mode and the recovered mode with the rest of the claim limitations.

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As per claims 4, 5 and 17, none of the prior art of record teaches or suggests

electrically operating the die in a loop that causes the die to fail at a selected failure

rate.

As per claims 19-23, none of the prior art of record teaches or suggests a

detector adapted to detect, in response to the selected portion being heated, a

state-changing transition between a failed mode and a recovered mode in the suspect

signal path site; and a display adapted to use the detected state-changing transition and

to display an image of the die to be used for determining that the signal path site has a

resistivity that changes between the failed mode and the recovered mode.

Response to Arguments

4. Applicant's arguments with respect to claims 1-23 have been considered but are

moot in view of the new ground(s) of rejection.

**Contact information** 

5. Any inquiry concerning this communication from examiner should be directed to

Mohamed Charioui whose telephone number is 703 605-4362. The examiner can

normally be reached Monday to Friday 9 am to 6 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Marc S. Hoff can be reached at 703 308-1677. The fax phone number for

the organization where this application is assigned is 703 305-3431.

Any inquiry of a general nature or relating to the status of this application should

be directed to the group receptionist whose number is 703 308-0956.

Mohamed Charioui

10/4/03

MARC S. HOFF SUPERVISORY PATENT EXAMINER

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